Historic, archived document

Do not assume content reflects current scientific knowledge, policies, or practices.



Extension Service Circular 270

October 1937

NOV 30 1931 ENFERRECKS STATION PLA

SPRING OF EXPLRISHMENT OF APPORTS

STATISTICAL MEASUREMENTS

WORK CLUB

Barnard D. Joy, Agriculturist Extension Studies and Teaching Section

High Lights of This Report

Statistical measure of 4-H club work	Avera	age for 1936	of the
	United States	Highest six States	Lowest six States
Percentage of - Rural boys and girls reached	44.4	96.6	22.0
1935 members reenrolled in 1936	61.0	71.0	42.2
1936 members completing their project	69.8	87.7	55.0
Enrollment per county extension agent	187	3 23	95

CONTENTS

	Page
Statistical measures and their value	2
Percentage of boys and girls reached	2
Percentage of members who reenroll	7
Percentage of completions	8
Enrollment per county extension agent	10
Additional 4-H club data	14
Supplement	16

DISTRIBUTION: A copy of this circular has been sent to each State extension director; State leader in county agricultural and home demonstration work; State leader and assistant State leader in 4-H club work; agricultural-college library; and experiment-station library.

STATISTICAL MEASURES AND THEIR VALUE

Although measurements of participation are not valid in evaluating the educational outcomes of 4-H club work or any other educational undertaking, they may be indicators of progress. Schools and colleges record the number who enroll, attend classes, and satisfactorily complete courses and curriculums. Radio stations evaluate time upon the basis of the size of audience reached. Newspapers and magazines price advertising space largely upon the basis of circulation.

The four statistical measures of 4-H club work that are the best indicators of its scope, appeal, and influence are -

- 1. Percentage of eligible young people reached.
- 2. Percentage of members who reenroll.
- 3. Percentage of members who complete their project.
- 4. Enrollment per county extension agent.

Because the 4-H club programs vary somewhat from State to State, particularly in the matter of what constitutes enrollment and completion, any one of these four measures is not a fair basis for comparison. This difficulty is overcome when the four are considered together, as they are compensating in character.

PERCENTAGE OF BOYS AND GIRLS REACHED

The percentage of eligible boys and girls who join a 4-H club is a measure of the thoroughness of the work in covering its potential field. Although a few urban youth join 4-H clubs, the maximum potential field is usually considered to be all rural boys and girls, both farm and rural nonfarm (fig. 1).

Based upon the 1930 Census the number of rural boys and girls who annually reach the average 4-H club starting age of 12.2 years is 1,209,000

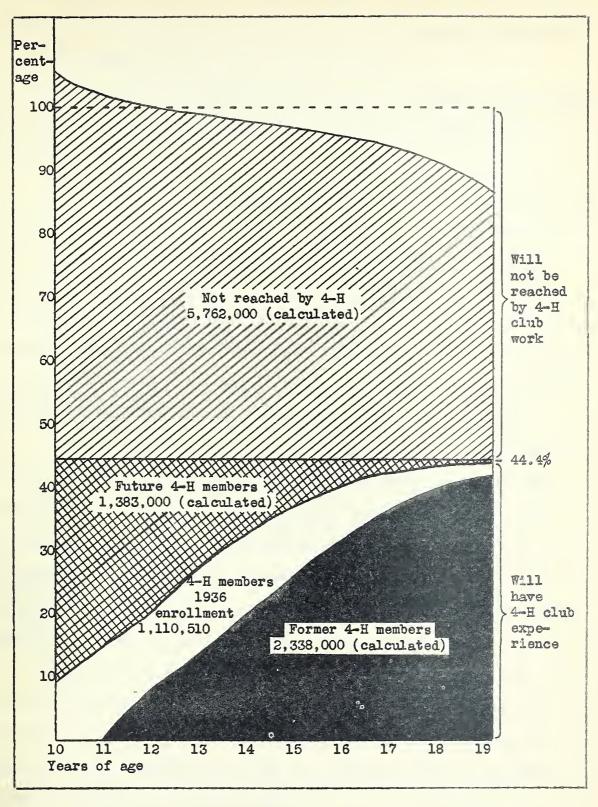


Figure 1 - How 4-H club work reaches rural boys and girls (1936)



(the average of those 11 and 12 years of age). The 536,895 new members enrolled in the 4-H clubs in 1936 are equal to 44.4 percent of those who passed the average starting age during the year.

The number of new members in 1936 was a 23.6 percent increase over the new members enrolled in 1935 and a 35.4 percent increase over the 1930-34 5-year average.

Based upon the number of farm homes and other homes from which 4-H club members were enrolled in 1936 it is estimated that 80.5 percent of the new members in 1936 were farm boys and girls. On this basis, 4-H club work is reaching 58.0 percent of the farm boys and girls. This is determined by dividing 432,200 (80.5 percent of 536,895) by 745,082, the number of farm boys and girls who reached the average 4-H club starting age during the year. In a similar manner it is estimated that 4-H club work is reaching 22.6 percent of the rural nonfarm boys and girls.

Although the 1936 enrollment of 1,145,508 is less than 10 percent of the 12,558,815 rural boys and girls 10 to 20 years of age inclusive, there are many in this group who are former members and many more who will join in the future. Of the 44.4 percent who have been or will be reached by 4-H club work, the average situation is for the boy or girl to join sometime during his twelfth year and to continue until 14 or 15 years of age, the average length of membership being 2.5 years.

Figure 1 is a diagram of the relation of 4-H club membership to rural boys and girls. The 19- and 20-year age groups are omitted from it because the increased migration away from rural communities at that age makes the suppositions upon which the diagram is based less valid than for the 10- to 18-year age group.

One hundred percent represents the 1,209,000 rural boys and girls who annually pass the average 4-H club starting age of 12.2 years. The

_ 4 -

995-37

536,895 new members enrolled in 4-H clubs in 1936 are equal to 44.4 percent of those who reached the average starting age during the year.

Of the 10,593,000 rural boys and girls 10 to 18 years of age inclusive, throughout the country, 1,110,510 are now 4-H club members. If 4-H club work continues to enroll new members in the same numbers as in 1936, there are 1,383,000 rural boys and girls 10 to 18 years of age who will join before reaching their nineteenth birthday. Likewise, if in the past 4-H club work had enrolled new members at the same rate as in 1936 there would be 2,338,000 former members who have not yet reached their nineteenth birthday. The remaining group of 5,762,000 rural boys and girls will pass through the period between the ages of 10 and 19 years without joining a 4-H club.

The diagram is also useful in determining the approximate membership relation of a particular age group to the 4-H clubs. For example, by reading vertically, we find that 33.9 percent of the 16-year-olds have been in a 4-H club and dropped out. An additional 7.8 percent are current 4-H club members, and 2.7 percent more will join within the next 2 years.

Assuming that the average club member is represented by a horizontal line at 22.2 percent (halfway between 0 and 44.4 percent), it may be ascertained from the diagram that he joined at 12.2 years of age, continued in club work for 2.5 years, and at 14.7 years of age passed from an active to a former 4-H club member.

Data on the percentage of rural boys and girls reached in the various States and counties are determined by dividing the number of new members enrolled during the year by the number of rural boys and girls who annually pass the average starting age (fig. 2).

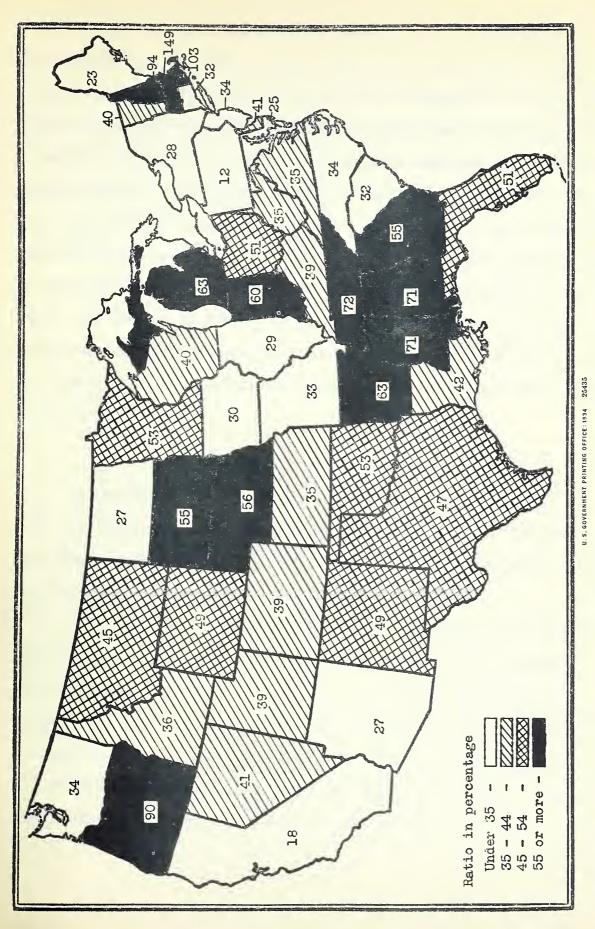


Figure 2 - Ratio of first year 4-H club members enrolled in 1936 to total number of rural (farm or nonfarm) boys and girls reaching the average 4-H starting age (average of those reported as 11 years of age and 12 years of age in 1930 Census)



There is a wide variation among the States in the percentage of rural boys and girls that are being reached by 4-H club work. The four States that had a new enrollment of more than 80 percent of the rural boys and girls who passed the average 4-H club starting age in 1936 cannot look forward to any significant increase in 4-H club enrollment by enrolling a larger number of new members annually. In contrast it is possible for the two States that were reaching less than 20 percent of the rural boys and girls to increase their 4-H club enrollment 500 percent by increasing the annual enrollment of new members: On the basis of 1936 enrollment, 17 States are reaching more than 50 percent of the rural boys and girls. Large increases in total enrollment in these States can be achieved only by increasing the average length of time that the 4-H club members continue in the work.

PERCENTAGE OF MEMBERS WHO REENROLL

A measure of the effectiveness of 4-H club work is the length of time that the young people continue as members. Members who find the work interesting and helpful will enroll again the following year. This may be expressed by the percentage of members who reenroll.

Percentage of reenrollment for 1936 is calculated by subtracting the first-year members (new members) in 1936 from the total enrollment and dividing by the total enrollment in 1935. Subtracting 536,895 new members from the total of 1,145,508, we have 608,613 members who had belonged to a 4-H club previous to 1936. This number is 61.0 percent of the 997,744 4-H club members in 1935. For boys the percentage of reenrollment for 1936 was 62.5; for girls it was 59.9.

The 1936 percentage of reenrollment was a slight decrease from the 61.4 percent in 1935, but was an increase over the 1930-35 6-year average of 58.4 percent. If the percentage of reenrollment is maintained at 61 percent over a period of years the average length of time that 4-H club members continue in the work would be 2.51 years. To raise the average length of 4-H club membership to 3.0 years, a percentage of reenrollment of 68.6 percent would need to be maintained.

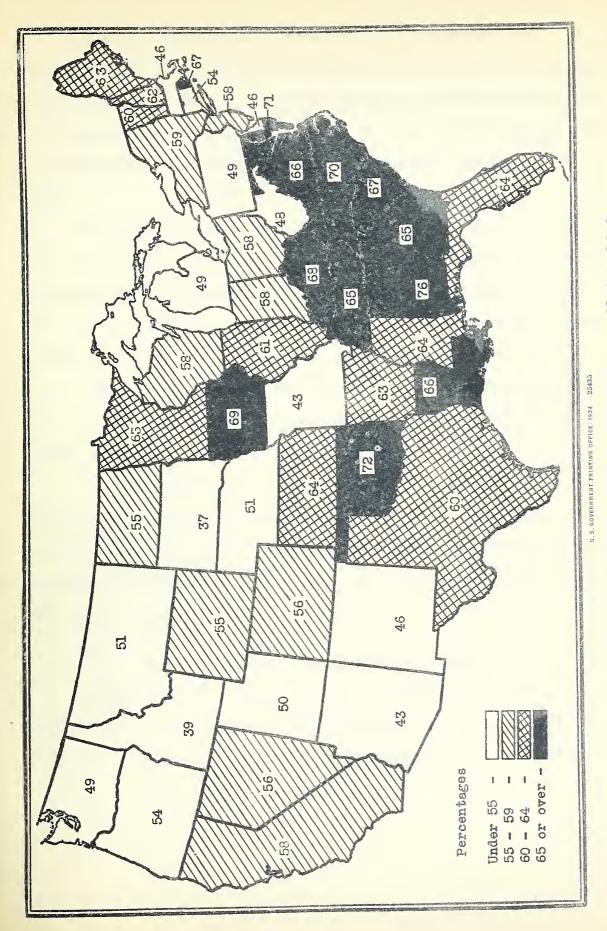
There is considerable variation among the States in percentage of reenrollment (fig. 3). In 1936 there were 10 States in which 65 percent or more of the 1935 members were still members in 1936. In contrast, there were 10 States in which less than 50 percent of the 1935 members continued the work in 1936.

PERCENTAGE OF COMPLETIONS

Percentage of completions has been widely used as a measure of 4-H club work. This percentage is determined by dividing the number of members completing by the number who enrolled. These terms are defined as follows: "4-H members enrolled are those boys and girls who actually start the work outlined for the year. 4-H members completing are those boys and girls who satisfactorily finish the work outlined for the year."1/

995-37

^{1/} Form 285. Combined annual report of county extension workers. U. S. Dept. Agr. Ext. Serv. Revised April 1, 1936.



Percentage of 1935 4-H club members who reenrolled in 1936 63 Figure



The "work outlined for the year" and the interpretation of "actually start the work" and "satisfactorily finish the work" vary somewhat from State to State. This variation affects completion and volume of enrollment in a compensating manner. For this reason enrollment per extension agent and percentage of completion should be considered together.

For the country as a whole, the percentage of completion in 1936 was 69.8 percent, which is the lowest since 1930. The highest percentage of completion was 72.5 percent in 1932, and an annual decline of from 0.2 to 1.0 percent has occurred each year since. The 1936 percentage of completion is 0.9 percent less than that for 1935.

The decline in percentage of completion is similar in the case of both boys and girls. In 1936, 67.8 percent of the 4-H club boys and 71.2 percent of the 4-H club girls completed their projects.

There were six States in which 85 percent or more of the 4-H club members completed their projects in 1936 (fig. 4). Contrast these with 10 States where less than 65 percent of the members satisfactorily finished the work outlined for the year. In two of these States less than 50 percent of the members completed their work.

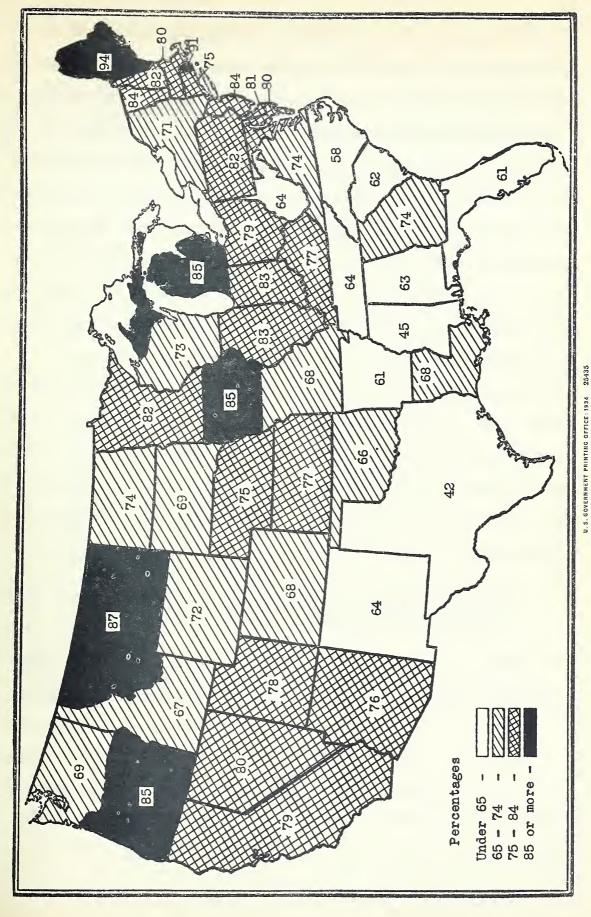
ENROLLMENT PER COUNTY EXTENSION AGENT

A measure of the volume of 4-H club work is the relation of membership to the extension budget or personnel. Its purpose is to picture the scope of the work in terms of available paid leadership.

As the county extension worker is the extension employee closest to the local 4-H club program and the person through whom specialists and State leaders usually work, the number of members per county agent is chosen as the most satisfactory unit of comparison. It reflects both budget and total extension personnel, as these are closely correlated with the number of county extension employees.

There were 187 4-H club members enrolled for each full-time county extension agent employed during 1936. This is slightly less than the 1930-35 6-year average of 200 4-H club members for each county extension agent.

Enrollment per county extension agent may be calculated for each State and is a more satisfactory measure of volume than total enrollment per State, because it makes allowance for the differences in the size of the States, the amount of extension funds available, and the number of 'people on the extension staff. This measure can be used to compare the volume of work done by States that employ agricultural and home demonstration agents who devote part of their time to 4-H club work with States where the agricultural and home demonstration agents devote all their time to adult work and county club agents are employed to give full time to 4-H club work. Whether a portion of each agent's time or the full time of part of the agents is devoted to 4-H club work, the enrollment per county extension agent is a measure of the number of boys and girls reached per unit of extension time or money.



- Percentage of 4-H club members enrolled who completed their project work, 1936 Figure 4



To calculate the data used in figure 5, it is necessary to know the number of county extension agents in each State. In all except six States the number of county extension agents on Federal appointment on June 30, 1936, was used. In the remaining six States a considerable number of part-time assistant agents either were or were not on Federal appointment on June 30, 1936. In these States the total months of service by county extension agents given in 1936 annual reports were divided by 12 to obtain the number of county extension agents on a yearly basis. The total 4-H club enrollment reported in 1936 was divided by the number of county extension agents to determine the average enrollment per agent.

The States that have a low 4-H club enrollment often justify it on the grounds that larger numbers would mean a lower quality of work. The data for 1936 (table 1) show the opposite to be true. The 18 States with the lowest enrollment per county extension agent have a slightly lower average percentage of completion and a considerably lower average percentage of reenrollment than the States with larger enrollment. This does not necessarily mean that large enrollment is the reason for high

Table 1.—Effect of 4-H enrollment upon percentage of completion and percentage of reenrollment for 1936 by States

Number of 4-H members per extension agent	Average number per agent	Average percentage of completion	Average percentage of reenrollment	Number of States
Less than 140 .	119.8	67.0	56.0	18
140-210	171.0	70.9	63.0	15
More than 210 .	261.1	70.4	62.2	15

completion or for high reenrollment. It does mean that some States have developed large enrollments without any loss in the quality of work being done. It is likely that the States that recognize the value of 4-H club work by getting large enrollments also recognize that a high quality of work is worth while.

ADDITIONAL 4-H CLUB DATA

Total 4-H club enrollment reached a new high with 1,145,508 members in 1936. This was an increase of 147,764 members or 14.8 percent over 1935. This increase was directly due to the enlarged extension staff financed through Bankhead-Jones funds. The number of county extension agents also reached a new high with 6,129, an increase of 960 or 18.6 percent over 1935.

The enrollment of 71,038 out-of-school boys and girls was 6.2 percent of the total 4-H club enrollment. This percentage is the lowest of any year since 1931, although the number enrolled in 1936 is the largest since it was first reported in 1930. Enrollment of out-of-school boys and girls increased but did not increase as much as the extension staff or as the enrollment of boys and girls in school.

During 1936, 12.8 percent of all 10- to 15-year-old rural boys and girls were active participants in 4-H club work; 8.8 percent of all 16- to 20-year-old in-school rural boys and girls; and 1.8 percent of all 16- to 20-year-old out-of-school rural boys and girls.

There were 68,341 organized 4-H clubs in 1936. This was 7,621 more than in 1935, and 7,560 more than the number in 1931 which was the highest year previous to 1936. The average number of clubs per county extension agent was 11.2. This is fewer than for any year since 1924.

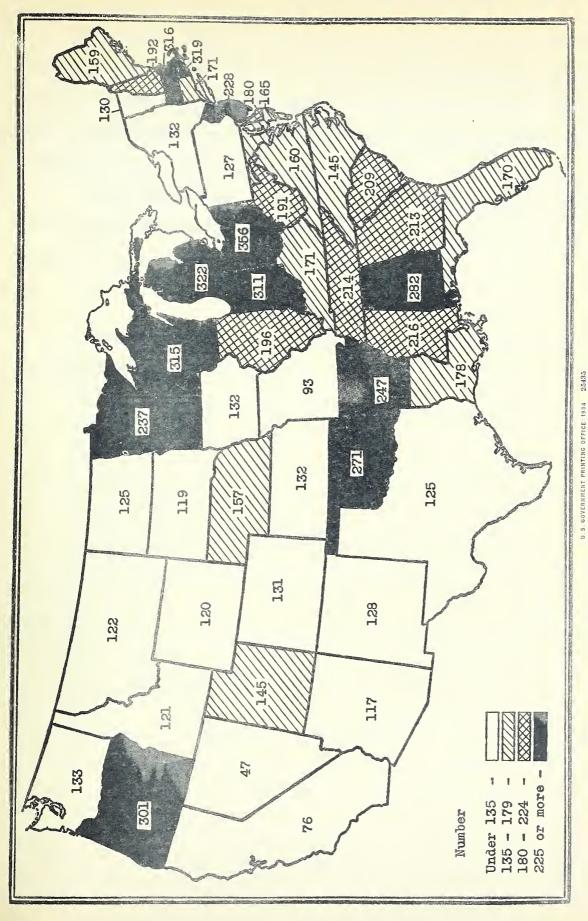


Figure 5 - Average number of 4-H club members enrolled per county extension agent, 1936



The average number of members per club was 16.8 and the average number of local leaders 1.7. The total of 46,394 demonstration teams is 0.68 per club, and of 30,372 judging teams is 0.44 per club. The clubs held an average of 4.6 meetings that were conducted by the local leader without an agent in attendance.

The number of local leaders assisting with 4-H club work reached a new high of 115,488 in 1936. They attended an average of 3.7 local-leader training meetings during the year.

SUPPLEMENT

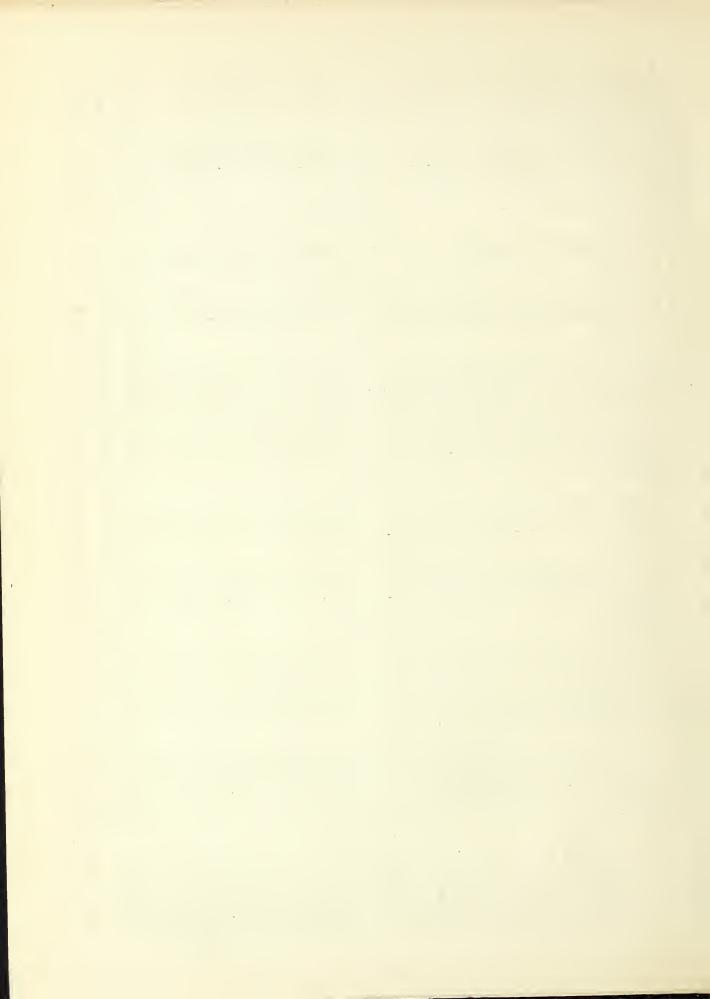
Table 2 on pages 17 and 18 presents additional statistical data by States for 1936.

Table 2. -- 4-H club and other data by States, 1935

State			L 0 L									
6,645 41, 200 63 20 2.177 6,375 5,969 93.56 40 159 9,370 23 1,566 5,425 6,504 61.56 3,265 7,095 5,784 81.56 41 11.92 1,020 61.56 3,265 7,095 5,784 81.56 7,192 66,4 31.60 1,032 1,03	State	1	10	Per- entage reen- olled	New ember 1936	0,0	l le	entage omple- tions	Sounty exten- sion gentsl	r coun exten sion	ural boys nd girls reaching -H start	Per- ntag ache clu
6. 5222 5.830 61.55 3.225 7.095 84.35 41.52 37 192 3.460 94. 5.331 2.866 3.455 60.45 1.920 5.345 1.516 75.33 35 171 9.894 31. 5.3531 2.866 3.455 1.920 5.345 1.920 65.4 316 75.33 35 171 9.894 31. 2.7551 2.866 3.455 1.920 6.345 1.920 1.013 2.871 2.669 90.87 9 319 982 10.3 2.551 1.850 4.586 7.20 1.013 2.871 1.559 11.074 81.50 136 12.7 2.551 1.671 8.729 49.40 8.540 11.653 11.074 81.50 136 12.7 2.551 1.672 8.729 49.40 8.540 11.653 11.074 81.50 136 12.7 2.551 1.022 1.0412 1.0514 1.0517 1.0517 61 10.041 1.0517 1.0517 61 1.0517 1		,645	4,200	63.20		6,373		\sim	140	159	9,3	۰ اسم
5,321 2,860 3,75 <	pshir	6,222	3,830	61.56	•	7,095		• "	37	192	— I	•
5,331 2,866 53.65 3,135 5,995 4,516 75.33 35 171 9,894 31 2,661 1,856 67.20 1,013 2,871 2,609 90.87 9 319 982 103 2,616 1,856 1,617 1,509 14,074 81.50 136 127 71,466 103 1,1,922 6,959 58.37 4,694 11,653 9,783 80.88 11 88.95 10 128 13,782 11 128 2.65 11 138 2.867 11 138 2.87 11 138 2.87 11 138 2.87 11 138 2.87 11 138 2.87 11 138 2.87 11 138 2.88 11 138 2.87 14 138 2.87 14 138 2.87 14 138 2.84 13 2.84 13 2.84 13 2.84 13 2.84	achusetts.	19,321	8,815	45.62	أ ما	20,842			* 4.7 9.7	150 316	_ (
2, 565 1, 558 67.20 1, 013 2, 871 2, 609 90 87 9 319 982 103 15, 604 58.52 10, 85, 61 11, 922 6, 939 58.57 4, 694 11 655 1, 978 81.50 13, 61 18, 624 11, 922 6, 999 58.37 4, 694 11 653 1, 978 81.90 11, 922 6, 999 58.37 4, 694 11 653 1, 978 81.10 180 43 11 180 2, 2.67 41 190 8.56 1, 91.042 46.25 1, 0442 46.25 1, 0442 46.25 1, 0442 46.25 1, 0442 1, 0442 1, 91.054 1, 10.442 1,	ecticut	5,331	2,860	53.65	ž	5,995			35	171	0(1)	
25,618 15,604 58.72 10,836 26,4440 18,584 70.66 201 132 38,510 28 17,671 8,729 49.40 8,540 17,699 14,074 81.50 136 127 77,466 11 2,522 1,042 46.25 3533 10,034 3,111 80.43 61 165 13,775 22,67 41 1,956 5,91 71.42 19,857 12,759 61.22 104 191 22,67 41 1,958 5,94 73,581 10,034 3,111 80.43 61 165 13,755 24 1,3,64 7,77 13,857 12,759 64.22 104 191 20,579 25,949 14,183 20,149 20,579 20,419 20,571 77.75 772 17.75 774 41,500 14,183 77.44 10,418 11,418 77.84 11,418 77.84 11,418 77.84 11,418 77.84 11,418 <td>e Island</td> <td>5,765</td> <td>1,858</td> <td>67.20</td> <td>--Î</td> <td>2,871</td> <td></td> <td></td> <td>0</td> <td>319</td> <td>())</td> <td></td>	e Island	5,765	1,858	67.20	- -Î	2,871			0	319	())	
11, 271	York	25,618	15,504	58.52	ં	26,4440			201	132	80 '	
2, 253 1, 042 46.25 935 1, 0,034 8,111 80.43 61 165 13, 752 24 1, 9,865 9,449 47.57 10,413 19,867 12,759 80.88 11 180 191 29,639 35 1,042 46.29 10,034 8,111 80.43 61 165 13, 752 24 19,865 9,449 47.57 10,413 19,867 12,759 64.22 104 191 205,946 30 13,547 73,462 54.97 82,342 135,811 105,051 77.35 7792 17.1 205,946 30 15,895 26,760 55.31 17,779 444,529 36,757 82.53 145* 311 27,779 444,529 36,757 82.53 1445 196 147,179 11,275 15,424 48.54 20,985 36,757 82.53 142 196 147,275 28.54 142 15,424 48.54 20,985 36,409 30,909 84.89 113 332 23,340 40. 31,215 15,424 48.54 20,985 36,409 30,909 84.89 113 35,22 21,022 29. 13,340 12,341 196 115,349 27,045 62.55 15,375 12,128 85,44 196 132 31,022 29. 13,340 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119 12,945 51.07 10,882 19,030 14,319 75.24 121 15,793 69.42 92 119 12,945 51.07 10,882 19,030 14,319 75.24 121 15,793 69.42 92 119 11,339 53.58 8,477 20,016 15,424 720 15,844 202 339,917 44.3	syrvania Tersev	7/0,/1	0 C	14.7 74.7 74.7	•	7,700 7,700 7,700 7,700		•	150) Z C C	1,4	•
a. 19,368 6,691 71.42 3,393 10,084 8,111 80,43 61 165 13,757 24 a. 19,865 9,449 47.57 10,415 19,867 12,759 64.22 104 191 20,639 35 133,547 73,462 54.97 52,349 135,811 105,051 77.35 792 171 205,946 30 56,451 32,989 58.44 22,972 55,961 441,121 78.84 157* 356 445,199 50 45,895 26,760 58.31 17,779 27,869 23,126 82.98 142* 196 26,385 16,099 61.02 11,770 27,869 23,126 82.98 142* 196 31,213 18,066 57.28 12,486 30,592 84.89 113 322 33,340 62,38 143,321 16,713 62.55 15,744 25,957 22,178 85.44 196 43,321 16,713 68.72 9,244 25,957 22,178 68.48 191 37, 29,241 52.22 17,045 68.55 15,749 85.44 196 13,77 17,022 29,241 52.98 15,790 14,385 55.19 3,742 8,127 12,984 12,11 15,39 55.19 3,742 8,127 12,984 12,11 15,39 55.19 3,742 8,127 12,131 18,060 13,875 10,060 13,875 10,060 13,875 10,060 13,875 10,082 11,092 1	ware	2,253	1,042	16.25	•	1,977			1 [180	ر ر د	•
a. 19,865 9,146 47.57 10,418 19,867 12,759 64.22 104 191 205,946 30 133,647 73,462 54.97 62,349 135,811 105,051 77.35 792 171 205,946 30 156,451 32,989 58.44 22,972 55,961 444,121 78.84 157* 356 45,199 50 145,895 26,760 58.31 17,779 444,539 36,757 82.53 143* 311 45,024 45,199 50 26,385 16,099 61.02 11,770 27,869 23,126 82.98 142 196 171 43,024 33,340 26,385 16,099 61.02 11,770 27,869 23,126 82.98 142 196 171 43,024 33,340 21,213 18,066 57.83 12,486 30,552 22,221 72.73 97 315 30,904 40, 24,3167 27,045 62.65 15,375 42,440 30,909 84.89 113 322 33,340 62,451 12,384 55.19 3,244 25,372 22,178 55,48 191 20,277 29,241 52,277 29,241 52,384 55.19 3,742 8,127 6,008 73.93 65 129 77,795 12,187 68,48 191 93 37,275 32, 179 27,655 10,601 3,875 56.55 7,062 10,937 7,593 69,42 92 119 12,943 54, 15,595 63,58 8,148 51.07 10,801 15,39 63,58 8,477 20,016 15,432 77.10 152* 13,849 12,945 11,385 55.18 10,937 7,593 69,42 92 119 12,943 54, 18,149 11,539 63,58 8,477 20,016 15,432 77.10 152* 13,849 12,943 11,539 63,58 8,477 20,016 15,432 77.10 152* 13,849 12,943 11,539 63,58 8,477 20,016 15,432 77.10 152* 13,849 12,949,391 203,278 58.18 16,98 71 77.19 77.26 1,844 202 390,917 44,35	land	9,368	6,691	71.42	•	10,084			19	165	7,7	
56,451 32,989 58.44 125,981 105,651 77.35 792 171 205,946 30 45,895 58.44 22,972 55,961 44,121 78.84 157* 356 45,199 50 24,595 26,451 17,79 44,539 36,757 82.53 117,79 27,869 23,126 82.98 142* 35,30 44,275 36,409 82,97 17,44 196 171 44,275 28,27 17,44 196 171 41,275 28,53 17,70 27,869 23,126 82.98 142 157 44,275 27,869 23,126 82,98 142 17,77 27,869 23,126 82,28 142 157 41,275 28,640 30,90 84,69 113 322 33,340 41,275 28,221 72.73 17,9 23,340 41,275 28,241 196 113 29,241 196 113 29,441 196 13,43 29,441 196 12,43	• 1	5	9,449	47.57		0			104	191	, O.	
56,451 32,989 58.44 22,972 55,951 44,121 78.84 157* 356 45,199 50 59,638 59 59,638 59 36,757 82.53 143* 31 29,638 59 59,638 59 22,531 143* 31 29,638 59 59,638 59 22,531 77.44 196 177 43,024 33 59 22,531 66,231 77.44 196 177 143,024 33 142 136 143,024 33 143,024 33 144 196 177 143,024 28 23,126 82.98 142 196 177 143,024 28 23,340 66.23 144,275 28 28 23,340 66.23 23,340 82.27 179 28 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340 82 23,340	total	33,	73,462	l -+	ณ์	2	05,	77.35	0	171	05,0	10
\(\frac{15}{15}, \frac{25}{26} \) \(26, \frac{75}{16} \) \(26, \frac{75}		56,451		∞	22,972	55,961	151,44	78.	_	5	45,199	
26,385 16,099 61.02 11,770 27,869 23,126 82.98 142 196 41,275 28 26,385 16,099 61.02 11,770 27,869 23,126 82.98 142 196 41,275 28 31,775 15,424 48.54 20,985 36,409 30,999 84.89 13 322 33,340 62 31,213 18,066 57.83 12,486 30,552 22,221 72.73 97 315 30,904 40 16,167 27.045 62.55 15,375 42,420 34,940 82.37 179 237 29,241 52 24,321 16,713 68.72 9,244 25,957 22,178 85.44 196 132 31,022 29 12,984 5,590 43.05 12,205 17,795 12,187 68.48 191 93 37,275 32 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 113 27 19,27 19,27 12,913	ana	45,895		00 L	17,779	44,539	36,757	821	MI	-	29,638	
31,775 15,424 48.54 20,985 36,409 30,909 84.89 113 322 33,340 68.23 31,213 18,066 57.83 12,486 30,552 22,221 72.73 97 315 30,904 40.62 31,213 18,066 57.83 12,486 30,552 22,221 72.73 97 315 30,904 40.62 24,321 16,713 68.72 9,244 25,957 22,178 85,44 196 132 31,022 29 12,984 5,590 43.05 12,205 17,795 12,187 68.48 191 93 37,275 32 10,601 3,875 55.99 43.05 12,062 10,937 7,593 69.42 92 1125 13,849 27 10,601 3,875 56.08 7,593 69.42 92 119 12,943 54 10,601 3,875 10,937 7,593 69.42 120 13,849 120 13,844 20,21 15,849 120 13,943 14,319 1	lcky	24,550 26,28E		<u> </u>	16,892	53,551	25,973	77.	96-1	\sim $^{\circ}$	43,054	
31,213 18,066 57.88 12,486 30,552 22,221 72.73 97 315 30,904 40 43,167 27,045 62.65 15,375 42,420 34,940 82.37 179 237 29,241 52 24,321 16,713 68.72 9,244 25,957 22,178 85,44 196 132 31,022 29 12,984 5,590 43.05 12,205 17,795 12,187 68.48 191 93 37,275 32 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119,349 27 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119,276 54 15,955 8,148 51.07 10,882 19,030 14,319 75.24 121 157 19,276 56 18,149 11,539 63.58 8,477 20,016 15,432 77.10 152* 1,844 202 390,917 43 349,391 203,278 58.1	rean	31.775		-1 60	20.085	26, 409	70, 120 30 a0a	V Z	. 747 . 717	u	41,2(5	
\(\frac{1}{4}\), \(\frac{1}{5}\) \(\frac{27}{15}\), \(\triangle \frac{1}{5}\), \(\frac{1}{5}\)	onsin	31,213		\sim	12,486	30,552	22,221	72.	76	⊢ ل	30 904	
24,321 16,713 68.72 9,244 25,957 22,178 85.44 196 132 31,022 29 12,984 5,590 43.05 12,205 17,795 12,187 68.48 191 93 37,275 32 7,945 4,385 55.19 3,742 8,127 6,008 73.93 65 125 13,849 27 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119 12,943 54 15,955 8,148 51.07 10,882 19,030 14,319 75.24 121 157 19,276 56 18,149 11,539 53.58 8,477 20,016 15,432 77.10 152* 132 23,931 35 18,149,391 203,278 58.18 169,871 373,149 295,764 79.26 1,844 202 390,917 43	esota	43,167		· (V)	15,375	42,420	34,940	82.	179	1	29,241	
12,984 5,590 43.05 12,205 17,795 12,187 68.48 191 93 37,275 32 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119 12,943 54 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119 12,943 54 15,955 8,148 51.07 10,882 19,030 14,319 75.24 121 157 19,276 56 18,149 11,539 53.58 8,477 20,016 15,432 77.10 152* 132 23,931 35 349,391 203,278 58.18 169,871 373,149 295,764 79.26 1,844 202 390,917 43		24,321		80	9,244	25,957	22,178	85	196	1 10	31,022	
7,945 4,385 55.19 3,742 8,127 6,008 73.93 65 125 13,849 27 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119 12,943 54. 15,955 8,148 51.07 10,882 19,030 14,319 75.24 121 157 19,276 56. 18,149 11,539 63.58 8,477 20,016 15,432 77.10 152* 132 23,931 35 349,391 203,278 58.18 169,871 373,149 295,764 79.26 1,844 202 390,917 43	ouri	12,984		3	12,205	17,795	12,187	98	191	93	37,275	
ota 10,601 3,875 36.55 7,062 10,937 7,593 69.42 92 119 12,943 54. 15,955 8,148 51.07 10,882 19,030 14,319 75.24 121 157 19,276 56. 18,149 11,539 53.58 8,477 20,016 15,432 77.10 152* 132 23,931 35. 349,391 203,278 58.18 169,871 373,149 295,764 79.26 1,844 202 390,917 43.	n Dakota	7,945		5	3,742	8,127	6,008	73.	65	N.	13,849	
15,955 8,148 51.07 10,882 19,030 14,319 75.24 121 157 19,275 56. 18,149 11,539 53.58 8,477 20,015 15,432 77.10 152* 132 23,931 35. 349,391 203,278 58.18 169,871 373,149 295,754 79.26 1,844 202 390,917 43.	ko	10,601		9	7,062	10,937	7,593	69	9	\vdash	12,943	
349,391 203,278 58.18 169,871 373,149 295,764 79.26 1,844 202 390,917 43	aska	15,955		-	10,882	19,030	14,319	75.	121	5	19,276	
349,391 203,278 58.18 159,871 373,149 295,764 79.26 1,844 202 390,917 43	3.8	18,149	- 1	3	→ lì	20,0	5	77.	S	3	23	
	cotal	Z, 5	203,278	X 0	25	(3,14	95,7	•	1,844	0	8	•

which cases the total months of service reported by county extension agents and assistants was divided by 12 to obtain number of agents on a yearly basis.

Table 2. --4-H club and other data by States, 1936 (continued)





Dame orași

Statistical Measurements of 4-H Club Work

Barnard D. Joy

With Special Reference to 1936



UNITED STATES DEPARTMENT OF AGRICULTURE Extension Service C. W. WARBURTON Director Division of Cooperative Extension C. B. SMITH Chief Washington, D.C.



